21 AVAILABLE COPYCEIVED Technology Contar StrayCation No. 09/737,942 Sheet 2 of 2 Form PTO-1449 ATTY DOCKET NO. PATENT & TRADEMARK OFFICE D/99503 INFORMATION DISCLOSURE STATEMENT (Use several sheets if nacessary) APPLICANT Lauri Karttunen et al. FILING DATE **GROUP ART UNIT 2122** 12/18/2000 OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.) LAURI KARTTUNEN, RONALD M. KAPLAN, AND ANNIE ZAENEN. "Two-level morphology with MS composition. In COLING'92, pages 141-148, Nantes, France, August 23-28. 1992. LAURI KARTTUNEN, "Finite-state texticon compiler". Technical Report ISTL-NLTT-1993-04-02, Xerox Palo Alto Research Center, Palo Alto, CA, April, 1993. LAURI KARTTUNEN. "Constructing lexical transducers". In COLING'94, Kyoto, Japan. 1994. LAURI KARTTUNEN, JEAN PIERRE CHANOD, GREG GREFENSTETTE, AND ANNE SCHILLER. "Regular expressions for language engineering". Natural Language Engineering 2 (4), 305-328. 1996. LAURI KARTTUNEN, TAMÁS GAÁL, AND ANDRÉ KEMPE 1997. "Xerox Finite-State Tool". Technical Report. Xerox Research Centre Europe, Grenoble. Meylan, France. June 1997. LAURA KATAJA AND KIMMO KOSKENNIEMI. "Finite-state description of Semitic morphology: A case study of Ancient Akkadian". In COLING'88, pages 313-315. 1988. MARTIN KAY. "Nonconcatenative finite-state morphology". In Proceedings of the Third Conference of the European Chapter of the Association for Computational Linguistics, pages 2-10. 1987. GEORGE ANTON KIRAZ AND EDMUND GRIMLEY-EVANS. "Multi-tape automata for speech and language systems: A Prolog implementation*. In Jean-Marc Champarnaud, Denis Maurel, and Djelloul Ziadi, editors, Automata Implementation; volume 1660 of Lecture Notes in Computer Science. Springer Verlag, Berlin, Germany. 1999. GEORGE ANTON KIRAZ. "Multi-tape two-level morphology: a case study in Semitic non-linear morphology". In COLING'94, volume 1, pages 180-186. 1994. GEORGE ANTON KIRAZ. "Semhe: A generalised two-level system". In Proceedings of the 34th Annual Meeting of the Association of Computational Linguistics, Santa Cruz, CA. 1996. GEORGE ANTON KIRAZ. "Multi-tiered non-linear morphology: A case study on Syriac and Aribic". Computational Linguistics, Volume 26, Number 1. 2000. KIMMO KOSKENNIEMI. "Two-level morphology: A general computational model for word-form recognition and production". Publication 11, University of Helsinki, Department of General Linguistics, Helsinki. 1983. (See in particular pages 27-28.) ALON LAVIE, ALON ITAI, UZZI ORNAN, AND MORI RIMON. On the applicability of two level morphology to the inflection of Hebrew verbs*. In Proceedings of ALLC III, pages 246-260. 1988. (See in particular bottom of page 248.) JOHN J. MCCARTHY AND ALAN PRINCE. "Faithfulness and reduplicative identity". Occasional papers in Linguistics 18, University of Massachusetts, Amherst, MA. ROA-60. 1995. JOHN J. MCCARTHY. "A prosodic theory of nonconcatenative morphology". Linguistic Inquiry, 12(3):373-418. 1981. RICHARD SPROAT, "Morphology and Computation". Section 2.4.4 "Nonconcatenative morphology, MIT Press, Cambridge, MA. Pages 159-170. 1992. FYAMINER 6/6/05

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APPLICATION NO. ATTY DOCKET NO. US Dept. of Commerce Form PTO-1449 PATENT & TRADEMARK OFFICE D/99503 *2100* 09/737,942 INFORMATION DISCLOSURE STATEMENT Lauri Karttunen et al. APPLICANT (Use several sheets if neg **GROUP ART UNIT 2122** 12/18/2000 FILING DATE 2002 U.S. ATENT DOCUMENTS E. SUB EXAMINER INITIAL CLASS DOCUMENT NUMBER DATE NAME OF PATENTEE 395 601 5.594.641 1/14/97 Kaplan et al. AB Cutting et al. 611 4/29/97 5,625,554 Zaenen 794 5,642,522 6/24/97 MAR 2 8 2002 FOREIGN PATENT DOCUMENTS NAME OF PATERICE GIORY CENTRE 250 TRANSLATION PUBLICATION DATE **DOCUMENT NUMBER** COUNTRY OTHER DOCUMENTS (Including Author (in CAPS), Title, Publication Date, Pages, etc.) EVAN L. ANTWORTH. "PC-KIMMO: a two-level processor for morphological analysis". Section 6.4 "Nonconcatenative processes" to section 6.4.7 "Reduplication with coalescence", in Number 16 of Occasional publications in academic computing. Summer institute of Linguistics, Dallas. Pages 151-161. M NO Dute KENNETH R. BEESLEY, TIM BUCKWALTER, AND STUART N. NEWTON. Two-level finite-state analysis of Arabic morphology". In Proceedings of the Seminar on Bilingual Computing in Arabic and English, Cambridge, England, September 6-7. No pagination. 1989. LOUNTE KENNETH R. BEESLEY. "Finite-state description of Arabic morphology". In Proceedings of the Second Cambridge Conference on Bilingual Computing in Arabic and English, September 5-7. No pagination. 1990. KENNETH R. BEESLEY. "Computer analysis of Arabic morphology: A two-level approach with detours". In Bernard Comrie and Mushira Eld, editors, Perspectives on Arabic Linguistics III: Papers from the Third Annual Symposium on Arabic Linguistics, pages 155-172. John Benjamins, Amsterdam. 1991. KENNETH R. BEESLEY. "Arabic finite-state morphological analysis and generation". In COLING'96, volume 1, pages 89-94, Copenhagen, August 5-9. Center for Sprogteknologi. The 16th International Conference on Computational Linguistics. 1996. Computational Linguistics. 1996. KENNETH R. BEESLEY. "Arabic morphological analysis on the Internet". In ICEMCO-98, Cambridge, April 17-18. Centre for Middle Eastern Studies. Proceedings of the 6th International Conference and Exhibition on year only Multi-lingual Computing. Paper number 3.1.1; no pagination. 1998. KENNETH R. BEESLEY. "Arabic morphology using only finite-state operations". In Michael Rosner, editor, Computational Approaches to Semitic Languages: Proceedings of the Work-shop, pages 50-57, Montréal, Québec, August 16. Université de Montréal. 1998. Québec, August 16. Université de Montréal. 1998. KENNETH R. BEESLEY. "Arabic stern morphotactics via finite-state intersection". Paper presented at the 12th Symposium on Arabic Linguistics, Arabic Linguistic Society, 6-7 March, 1998, Champaign, IL. KENNETH R. BEESLEY. "Consonant Spreading in Arabic Stems". In COLING-ACL'98, Volume 1, pages 117-123. August 1998. willing KENNETH R. BEESLEY AND LAURI KARTTUNEN. "Finite-State Non-Concatenative Morphotactics". SIGPHON-2000, Proceedings of the Fifth Workshop of the ACL Special Interest Group in Computational Phonology, pp. 1-12, August 6, 2000, Luxembourg. DATE CONSIDERED 105 61 Examiner: Initial if citation considered, whether or not citation is in conformance with M.P.E.P. 609. Draw line through citation if

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